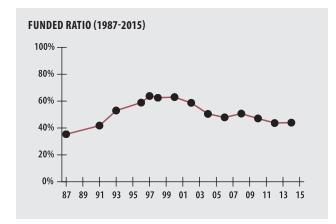
Middlesex County

P. O. Box 160 25 Linnell Circle Billerica, MA 01865 Phone 978-439-3000 or 1-800-258-3805 Fax 978-439-3050

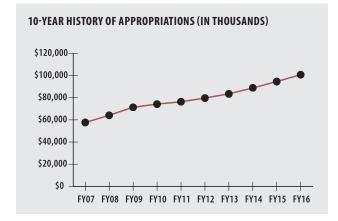
Board Members

Thomas F. Gibson, Esq. (Chairperson), John Brown, Brian P. Curtin, Robert W. Healy

Board Administrator Lisa Maloney **Board Meeting** Varies



INVESTMENT RETURN (2011-2015, 5 YEAR AND 31 YEAR AVERAGES) 14% 12% 10% 8% 6% 4% 2% 11-15 85-15 14 15



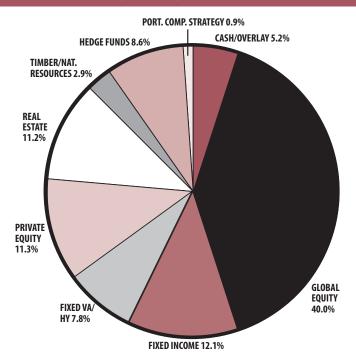
<u>31 years 2015</u>	<u>30 years 2014</u>	29 years 2013
8.34%	8.58%	8.60%
10 years 2015	10 years 2014	10 years 2013
5.64%	6.28%	6.58%
<u>5 years 2015</u>	5 years 2014	<u>5 years 2013</u>
7.49%	9.85%	10.82%

INVESTMENT RETURN HISTORY

ACTUARIAL

► Funded Ratio		44.0%
Date of Last Valuation		01/14
► Actuary		The Segal Company
► Assumed Rate of Return		7.88%
▶ Funding Schedule		4.0% Increasing Phase-in
Year Fully Funded		2035
Unfunded Liability		\$1.2 B
► Total Pension Appropriation (Fiscal 2016)		\$100.7 M
	ACTIVE	RETIRED
Number of Members	9,082	5,077
► Total Payroll/Benefit	\$415.8 M	\$114.8 M
Average Salary/Benefit	\$45,800	\$22,600
► Average Age	48	NA
► Average Service	11.7 years	NA

ASSET ALLOCATION (12/31/15)



EARNED INCOME OF DISABILITY RETIREES (2014)

Normalis and William Danis and Tamaiana	
► Number Who Reported Earnings 128	
► Number of Excess Earners 6	
► Total Amount of Refund Due \$68,538.12	

▶ 2015 Return	1.18%
▶ 2015 Market Value	\$1.1 B
▶ 2011-2015 (Annualized)	7.49%
▶ 1985-2015 (Annualized)	8.34%